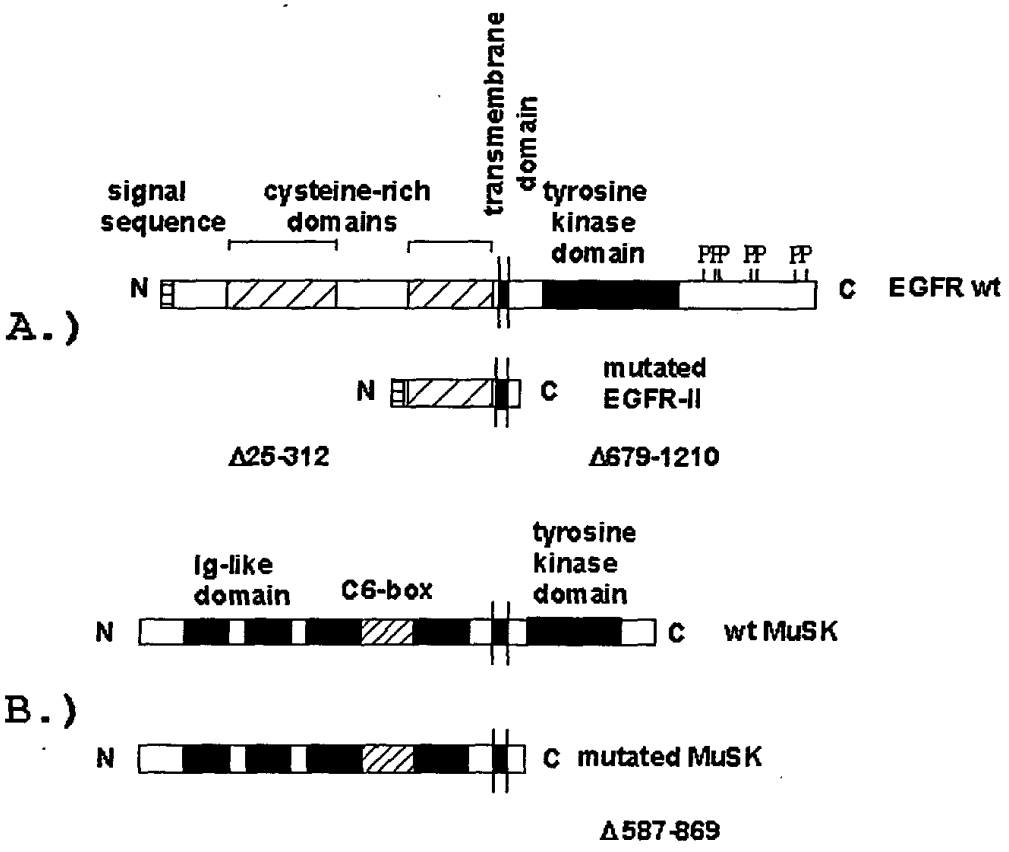

In A.) the the wild-type and the mutated EGFR-II are shown, in B.) the wild type and the mutated MuSK is shown. Both EGFR-II and the mutated MuSK can be used as selectable cell surface markers.

FIGURE 1

MRPSGTAGAA LLALLAALCP ASRALEEKKV CQGTSNKLTQ LGTFEDHFLS 50
LQRMFNNCEV VLGNLEITYV QRNYDLSFLK TIQEVAGYVL IALNTVERIP 100
LENLQIIRGN MYYENSYALA VLSNYDANKT GLKELPMRNL QEILHGAVRF 150
SNNPALCNVE SIQWRDIVSS DFLSNMSMDF QNHLGSCQKC DPSCPNGSCW 200
GAGEENCQKL TKIICAQQCS GRCRGKSPSD CCHNQCAAGC TGPRESDCLV 250
CRKFRDEATC KDTCPPLMLY NPTTYQMDVN PEGKYSFGAT CVKKCPRNYV 300
VTDHGSCVRA CGADSYEMEE DGVRKCKKCE GPCRKVCNGI GIGEFKDSLS 350
INATNIKHFK NCTSISGDLH ILPVAFRGDS FTHTPPLDPQ ELDILKTVKE 400
ITGFLLIQAW PENRTDLHAF ENLEIIRGRT KQHGQFSLAV VSLNITSLGL 450
RSLKEISDGD VIISGNKNLC YANTINWKKL FGTSGQKTKI ISNRGENSCK 500
ATGQVCHALC SPEGCWGPEP RDCVSCRNVS RGRECVDKCN LLEGEPREFV 550
ENSECIQCHP ECLPQAMNIT CTGRGPDNCI QCAHYIDGPH CVKTCPAGVM 600
GENNTLVWKY ADAGHVCHLC HPNCTYGCTG PGLEGCPTNG PKIPSIATGM 650
VGALLLLLVV ALGIGLFMRR RHIVRKRTLR RLLQERELVE PLTPSGEAPN 700
QALLRILKET EFKKIKVLGS GAFGTVYKGL WIPEGEKVKI PVAIKELREA 750
TSPKANKEIL DEAYVMASVD NPHVCRLLGI CLTSTVQLIT QLMPFGCLLD 800
YVREHKDNIG SQYLLNWCVQ IAKGMNYLED RRLVHRDLAA RNVLVKTPQH 850
VKITDFGLAK LLGAEEKEYH AEGGKVPIKW MALESILHRI YTHQSDVWSY 900
GVTVWELMTF GSKPYDGIPA SEISSILEKG ERLPQPPICT IDVYMIMVKC 950
WMIDADSRPK FRELIIEFSK MARDPQRYLV IQGDERMHLP SPTDSNFYRA 1000
LMDEEDMDDV VDADEYLIPQ QGFFSSPSTS RTPLLSSLSA TSNNSTVACI 1050
DRNGLQSCPI KEDSFLQRYS SDPTGALTED SIDDTFLPVP EYINQSVPKR 1100
PAGSVQNPVY HNQPLNPAPS RDPHYQDPHS TAVGNPEYLN TVQPTCVNST 1150
FDSPAHWAQK GSHQISLDNP DYQQDFFPKE AKPNGIFKGS TAENAEYLRV 1200
APQSSEFIGA 1210

FIGURE 2

ATGCGACCCT CCGGGACGGC CGGGGCAGCG CTCCTGGCGC TGCTGGCTGC 50

GCTCTGCCCG GCGAGTCGGG CTCTGGAGGA AAAGAAAGTT TGCCAAGGCA 100

CGAGTAACAA GCTCACGCAG TTGGGCACTT TTGAAGATCA TTTTCTCAGC 150

CTCCAGAGGA TGTTCAATAA CTGTGAGGTG GTCCTTGGGA ATTTGGAAAT 200

TACCTATGTG CAGAGGAATT ATGATCTTTC CTTCTTAAAG ACCATCCAGG 250

AGGTGGCTGG TTATGTCCTC ATTGCCCTCA ACACAGTGGA GCGAATTCCT 300

TTGGAAAACC TGCAGATCAT CAGAGGAAAT ATGTACTACG AAAATTCCTA 350

TGCCTTAGCA GTCTTATCTA ACTATGATGC AAATAAAACC GGACTGAAGG 400

AGCTGCCCAT GAGAAATTTA CAGGAAATCC TGCATGGCGC CGTGCGGTTC 450

AGCAACAACC CTGCCCTGTG CAACGTGGAG AGCATCCAGT GGCGGGACAT 500

AGTCAGCAGT GACTTTCTCA GCAACATGTC GATGGACTTC CAGAACCACC 550

TGGGCAGCTG CCAAAAGTGT GATCCAAGCT GTCCCAATGG GAGCTGCTGG 600

GGTGCAGGAG AGGAGAACTG CCAGAAACTG ACCAAAATCA TCTGTGCCCA 650

GCAGTGCTCC GGGCGCTGCC GTGGCAAGTC CCCCAGTGAC TGCTGCCACA 700

ACCAGTGTGC TGCAGGCTGC ACAGGCCCCC GGGAGAGCGA CTGCCTGGTC 750

TGCCGCAAAT TCCGAGACGA AGCCACGTGC AAGGACACCT GCCCCCCACT 800

CATGCTCTAC AACCCCACCA CGTACCAGAT GGATGTGAAC CCCGAGGGCA 850

AATACAGCTT TGGTGCCACC TGCGTGAAGA AGTGTCCCCG TAATTATGTG 900

GTGACAGATC ACGGCTCGTG CGTCCGAGCC TGTGGGGCCG ACAGCTATGA 950

GATGGAGGAA GACGGCGTCC GCAAGTGTAA GAAGTGCGAA GGGCCTTGCC 1000

GCAAAGTGTG TAACGGAATA GGTATTGGTG AATTTAAAGA CTCACTCTCC 1050

ATAAATGCTA CGAATATTAA ACACTTCAAA AACTGCACCT CCATCAGTGG 1100

CGATCTCCAC ATCCTGCCGG TGGCATTTAG GGGTGACTCC TTCACACATA 1150

CTCCTCCTCT GGATCCACAG GAACTGGATA TTCTGAAAAC CGTAAAGGAA 1200

ATCACAGGGT TTTTGCTGAT TCAGGCTTGG CCTGAAAACA GGACGGACCT 1250

CCATGCCTTT GAGAACCTAG AAATCATACG CGGCAGGACC AAGCAACATG 1300

GTCAGTTTTC TCTTGCAGTC GTCAGCCTGA ACATAACATC CTTGGGATTA 1350

CGCTCCCTCA AGGAGATAAG TGATGGAGAT GTGATAATTT CAGGAAACAA 1400

FIGURE 3A

AAATTTGTGC TATGCAAATA CAATAAACTG GAAAAAACTG TTTGGGACCT 1450

CCGGTCAGAA AACCAAAATT ATAAGCAACA GAGGTGAAAA CAGCTGCAAG 1500

GCCACAGGCC AGGTCTGCCA TGCCTTGTGC TCCCCCGAGG GCTGCTGGGG 1550

CCCGGAGCCC AGGGACTGCG TCTCTTGCCG GAATGTCAGC CGAGGCAGGG 1600

AATGCGTGGA CAAGTGCAAG CTTCTGGAGG GTGAGCCAAG GGAGTTTGTG 1650

GAGAACTCTG AGTGCATACA GTGCCACCCA GAGTGCCTGC CTCAGGCCAT 1700

GAACATCACC TGCACAGGAC GGGGACCAGA CAACTGTATC CAGTGTGCCC 1750

ACTACATTGA CGGCCCCCAC TGCGTCAAGA CCTGCCCGGC AGGAGTCATG 1800

GGAGAAAACA ACACCCTGGT CTGGAAGTAC GCAGACGCCG GCCATGTGTG 1850

CCACCTGTGC CATCCAAACT GCACCTACGG ATGCACTGGG CCAGGTCTTG 1900

AAGGCTGTCC AACGAATGGG CCTAAGATCC CGTCCATCGC CACTGGGATG 1950

GTGGGGGCCC TCCTCTTGCT GCTGGTGGTG GCCCTGGGGA TCGGCCTCTT 2000

CATGCGAAGG CGCCACATCG TTCGGAAGCG CACGCTGCGG AGGCTGCTGC 2050

AGGAGAGGGA GCTTGTGGAG CCTCTTACAC CCAGTGGAGA AGCTCCCAAC 2100

CAAGCTCTCT TGAGGATCTT GAAGGAAACT GAATTCAAAA AGATCAAAGT 2150

GCTGGGCTCC GGTGCGTTCG GCACGGTGTA TAAGGGACTC TGGATCCCAG 2200

AAGGTGAGAA AGTTAAAATT CCCGTCGCTA TCAAGGAATT AAGAGAAGCA 2250

ACATCTCCGA AAGCCAACAA GGAAATCCTC GATGAAGCCT ACGTGATGGC 2300

CAGCGTGGAC AACCCCCACG TGTGCCGCCT GCTGGGCATC TGCCTCACCT 2350

CCACCGTGCA ACTCATCACG CAGCTCATGC CCTTCGGCTG CCTCCTGGAC 2400

TATGTCCGGG AACACAAAGA CAATATTGGC TCCCAGTACC TGCTCAACTG 2450

GTGTGTGCAG ATCGCAAAGG GCATGAACTA CTTGGAGGAC CGTCGCTTGG 2500

TGCACCGCGA CCTGGCAGCC AGGAACGTAC TGGTGAAAAC ACCGCAGCAT 2550

GTCAAGATCA CAGATTTTGG GCTGGCCAAA CTGCTGGGTG CGGAAGAGAA 2600

AGAATACCAT GCAGAAGGAG GCAAAGTGCC TATCAAGTGG ATGGCATTGG 2650

AATCAATTTT ACACAGAATC TATACCCACC AGAGTGATGT CTGGAGCTAC 2700

GGGGTGACCG TTTGGGAGTT GATGACCTTT GGATCCAAGC CATATGACGG 2750

AATCCCTGCC AGCGAGATCT CCTCCATCCT GGAGAAAGGA GAACGCCTCC 2800

FIGURE 3B

CTCAGCCACC CATATGTACC ATCGATGTCT ACATGATCAT GGTCAAGTGC	2850
TGGATGATAG ACGCAGATAG TCGCCCAAAG TTCCGTGAGT TGATCATCGA	2900
ATTCTCCAAA ATGGCCCGAG ACCCCCAGCG CTACCTTGTC ATTCAGGGGG	2950
ATGAAAGAAT GCATTTGCCA AGTCCTACAG ACTCCAACTT CTACCGTGCC	3000
CTGATGGATG AAGAAGACAT GGACGACGTG GTGGATGCCG ACGAGTACCT	3050
CATCCCACAG CAGGGCTTCT TCAGCAGCCC CTCCACGTCA CGGACTCCCC	3100
TCCTGAGCTC TCTGAGTGCA ACCAGCAACA ATTCCACCGT GGCTTGCATT	3150
GATAGAAATG GGCTGCAAAG CTGTCCCATC AAGGAAGACA GCTTCTTGCA	3200
GCGATACAGC TCAGACCCCA CAGGCGCCTT GACTGAGGAC AGCATAGACG	3250
ACACCTTCCT CCCAGTGCCT GAATACATAA ACCAGTCCGT TCCCAAAAGG	3300
CCCGCTGGCT CTGTGCAGAA TCCTGTCTAT CACAATCAGC CTCTGAACCC	3350
CGCGCCCAGC AGAGACCCAC ACTACCAGGA CCCCCACAGC ACTGCAGTGG	3400
GCAACCCCGA GTATCTCAAC ACTGTCCAGC CCACCTGTGT CAACAGCACA	3450
TTCGACAGCC CTGCCCACTG GGCCCAGAAA GGCAGCCACC AAATTAGCCT	3500
GGACAACCCT GACTACCAGC AGGACTTCTT TCCCAAGGAA GCCAAGCCAA	3550
ATGGCATCTT TAAGGGCTCC ACAGCTGAAA ATGCAGAATA CCTAAGGGTC	3600
GCGCCACAAA GCAGTGAATT TATTGGAGCA **TGA**	3630

FIGURE 3C

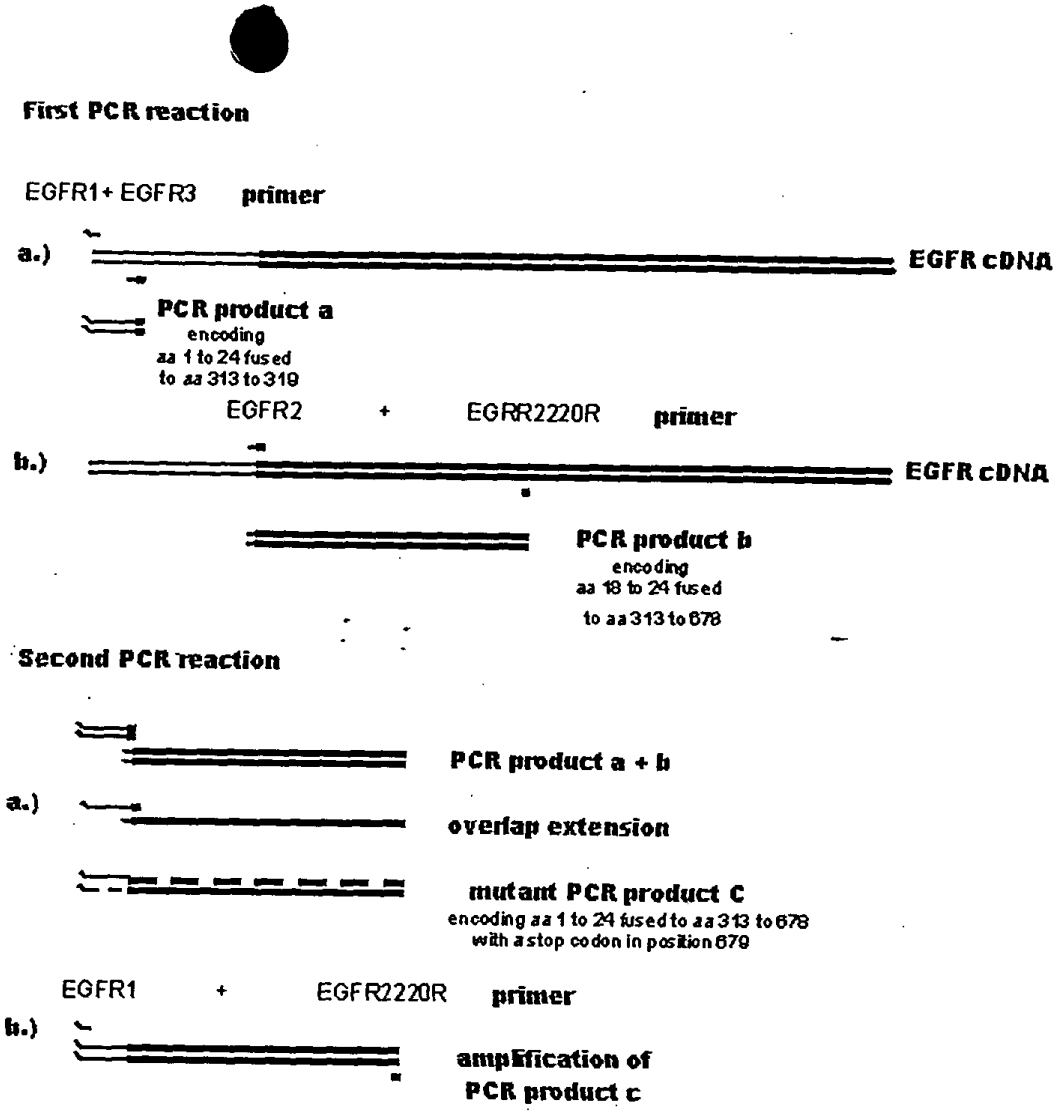
First PCR reaction
EGFR1+ EGFR3 primer
a.)
EGFR cDNA
PCR product a
encoding
aa 1 to 24 fused
to aa 313 to 319
EGFR2 + EGRR2220R primer
b.)
EGFR cDNA
PCR product b
encoding
aa 18 to 24 fused
to aa 313 to 678
Second PCR reaction
PCR product a + b
a.)
overlap extension
mutant PCR product C
encoding aa 1 to 24 fused to aa 313 to 678
with a stop codon in position 679
EGFR1 + EGFR2220R primer
b.)
amplification of
PCR product c

FIGURE 4

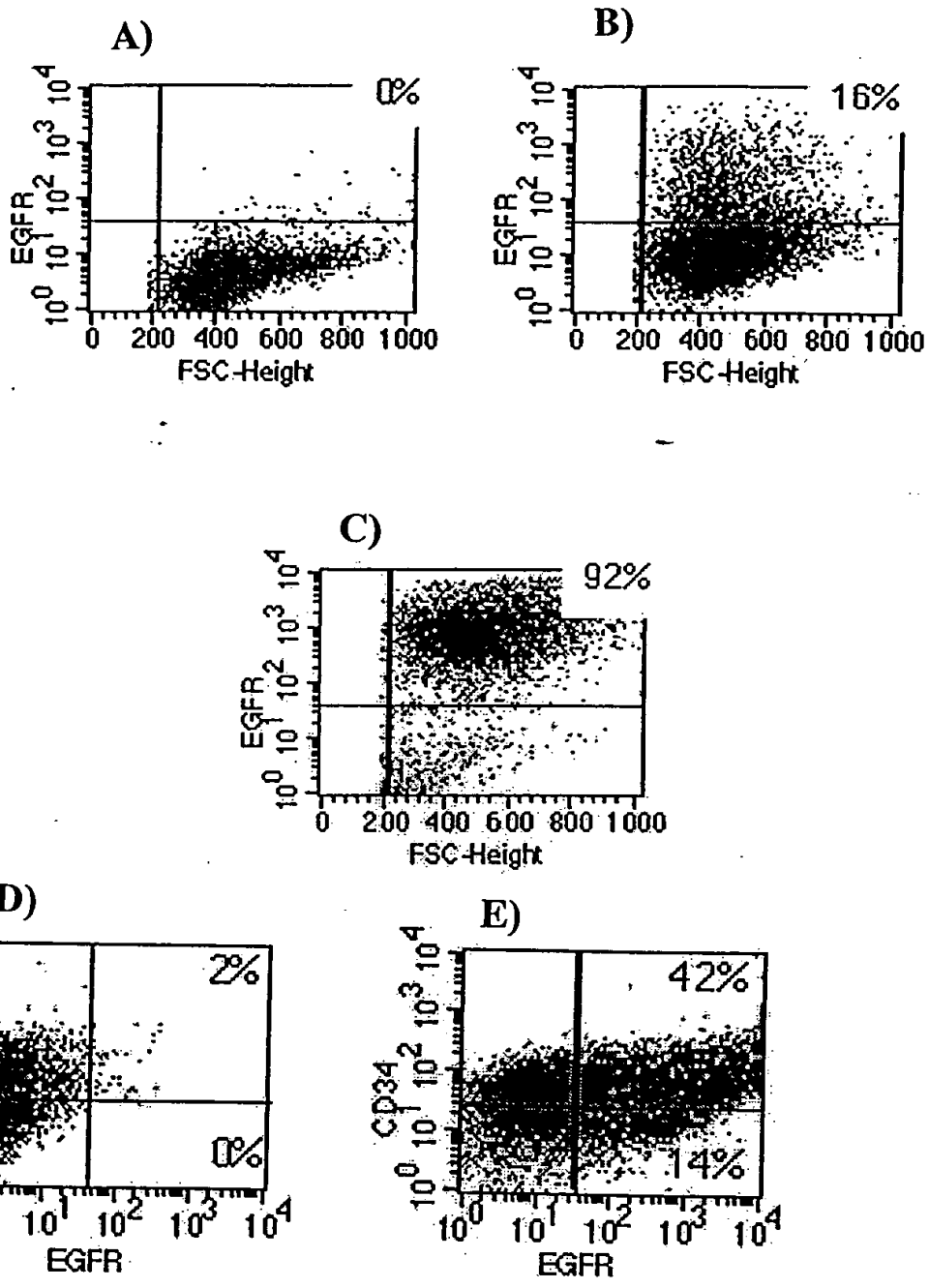
A)
0%
EGFR
FSC-Height
B)
16%
EGFR
FSC-Height
C)
92%
EGFR
FSC-Height
D)
2%
0%
CD34
EGFR
E)
42%
14%
CD34
EGFR

FIGURE 5

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MRELVNIPLV HILTLVAFSG TEKLPKAPVI TTPLETVDAL VEEVATFMCA       50
VESYPQPEIS WTRNKILIKL FDTRYSIREN GQLLTILSVE DSDDGIYCCT      100
ANNGVGGAVE SCGALQVKMK PKITRPPINV KIIEGLKAVL PCTTMGNPKP      150
SVSWIKGDSP LRENSRIAVL ESGSLRIHNV QKEDAGQYRC VAKNSLGTAY      200
SKVVKLEFEV FARILRAPES HNVTFGSFVT LHCTATGIPV PTITWIENGN      250
AVSSGSIQES VKDRVIDSRL QLFITKPGLY TCIATNKHGE KFSTAKAAAT      300
ISIAEWSKPQ KDNKGYCAQY RGEVCNAVLA KDALVFLNTS YADPEEAQEL      350
LVHTAWNELK VVSPVCRPAA EALLCNHIFQ ECSPGVVPTP IPICREYCLA      400
VKELFCAKEW LVMEEKTHRG LYRSEMHLLS VPKCSKLPSM HWDPTACARL      450
PHLDYNKENL KTFPPMTSSK PSVDIPNLPS SSSSSFSVSP TYSMTVIISI      500
MSSFAIFVLL TITTLYCCRR RKQWKNKKRE SAAVTLTTLP SELLLDRLHP      550
NPMYQRMPLL LNPKLLSLEY PRNNIEYVRD IGEGAFGRVF QARAPGLLPY      600
EPFTMVAVKM LKEEASADMQ ADFQREAALM AEFDNPNIVK LLGVCAVGKP      650
MCLLFEYMAY GDLNEFLRSM SPHTVCSLSH SDLSMRAQVS SPGPPPLSCA      700
EQLCIARQVA AGMAYLSERK FVHRDLATRN CLVGENMVVK IADFGLSRNI      750
YSADYYKANE NDAIPIRWMP PESIFYNRYT TESDVWAYGV VLWEIFSYGL      800
QPYYGMAHEE VIYYVRDGNI LSCPENCPVE LYNLMRLCWS KLPADRPSFT      850
SIHRILERMC ERAEGTVSV                                        869
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FIGURE 6